

DBR No 40/16-17
DATED 20/3/2017

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 3755

Serial No.
Name of work. Widening & Asphalting of main road from Sampigehalli Agrahara Village in ward no-05, Byatasayanapura sub-division.
Name of Contractor of nature of Agency. Sai. G.N. Ramesh.
Date of commencement of work. 04.02.2017.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Widening & Asphalting of main road from Sampigehalli Agrahara Village in ward no-05, Byatasayanapura sub-division. Estimate cost: 140.00 lakhs, Job code: 005-16-000023 P. Code: P3089, CMC & TMC Grant Administrative Sanction no: BBMP/JC/YZ/AS/01/16-17 Dt: 10-06-2016 Technical Sanction no: BBMP/CE/YZ/TS/12/16-17 Dt: 10-06-2016 Contractor Name: G.N. Ramesh Work Order no: EE(Projects)/Yank Zone/100/30/16-17 Dt: 04-02-17 Agreement no: EE(P)/YZ/AGG/31/16-17 Dt: 4-2-17 Date of Commencement: 04-02-2017 Date of Completion: 28-02-2017						

DBH no 10116-1A

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	<u>Item No-01</u> Earthwork excavation by manual means in ordinary an average horizontal throw upto 2 mtrs & an average lift upto 1.5m excavated surface levelled & sides neatly dressed the disposed earth to be levelled neatly after breaking of clods complete as per specification Qty Vide Page no (2) of enclosed excel sheet @ rate of Rs. 168-63/-	3	4	5	6	7	8
						✓ 417.96 cum	Rs. 70481.10

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Measurement Book

No. A/10 3756

Serial No.

Name of work

Name of Contractor of nature of Agency

Date of commencement of work

From To

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	7	8
	<u>Item No-02</u> Providing & laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs. with 40mm & down size graded granite metal coarse aggregate @ 0.892 Cum & fine aggregate @ 0.465 Cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted in foundation including cost of all material, labours, HBM & machinery, curing complete as per specification. Qty Vide Page no 3 of enclosed excel sheet					
					3.26 Cum	

MEASUREMENT BOOK

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M.A.R. 57 (Rule 116)

Measurement Book

No. A/10

3757

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date.....

Full description, etc, of work

Dimensions

Number
3

Length
4

Breadth
5

Depth
6

Contents
7

Reference
to last
Measurement
8

Item No-04 ✓

Providing & Constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:1:6, stone hammered dressed in courses not less than 20cm high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specification.

MEASUREMENT BOOK

D: Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6		
1	Qty upto 125% Qty vide Page no (5) of enclosed excel sheet					7.97 Cum	8
	Qty upto 125% @ rate of Rs. 3920.28/-					3.43 Cum	
	Qty above 125% @ rate of Rs. 4267.43/-					Rs. 13426.96 4.54 Cum. 13446/-	
						Rs. 19114.37 19101/-	
						Total Amount: 32541.33	
						32547/-	

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Measurement Book

No. A/10

3758

Serial No. From To

Name of work

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	<u>Item NO-05</u> Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specification. Qty Vide Page no 6 Enclosed excel sheet @ rate of Rs. 94.18/-					
					14.40	Sqm
						Rs. 1356.19
						At

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No-06						
	Providing & laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm & down size graded granite metal coarse aggregate @ 0.878 cum & fine aggregate @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cm thick, well compacted in foundation plinth & cills, including cost of all material, labour, Hom & machinery, curing, complete as per specification.						
	Qty Vide Page no (7)						
	& enclosed excel sheet						
	@ rate of Rs. 5205.20/-					0.16 Cum	
							Rs. 832.83
							at

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Qty up to 125% @ rate of Rs. 135.87/-	3	4	5	6	7	8
	Qty above 125% @ rate of Rs. 137.38/-					612.50 cum Rs. 83220.38 2365.26 cum	612.50 cum
	Item No-08 Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at om coverage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface & compacting with vibratory					Rs. 324949.50 384939/- Total Amount Rs 408169.88 Rs. 408159.38/-	Rs. 324949.50 384939/- 408169.88 408159.38/-

Measurement Book

No. A/10 3760

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.

Date of commencement of work.:

Date	Full description, etc., of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2 power roller to achieve the desired density, per specification.	3	4	5	7	8
	Qty Vide pagano 13 8 enclosed excel sheet @ rate of Rs. 1537.80/-				1675.22 cum	
						Rs. 2576154.85 2576153/- A/C

Rs. 2576154.85
AC ~~10~~ 2576153/-

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Measurement Book

No. A/10 3761

Serial No.....

Name of work.....

Name of Contractor of nature of Agency..

Date of commencement of work.

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	<u>Item NO-10</u> Providing & applying primer coat with s.s. bitumen emulsion on prepared surface of granular base such as 4mm including clearing of road surface & spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specification. Qty Vide Page no 19 of enclosed excel sheet @ rate of Rs. 26.61 /-	3	4	5	6	7	8
						8376.11 Sqm.	Rs. 222888.15/-

MEASUREMENT BOOK

D	Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
			Number	Length	Breadth	Depth		
	1	2	3	4	5	6	7	8
		<u>Item NO-11</u> Providing & applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 kg per 10 Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, 110m of machineries complete as per specification. Qty Vide Page no (25) enclosed excel sheet @ rate of Rs. 11-26/-					18070.11 Sqm Rs. 203476.19	

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Measurement Book

3762

No. A/10

Serial No.

Name of work

Name of Contractor of nature of Agency

Date of commencement of work

From To

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	<u>Item NO-12</u> Providing & laying dense bituminous macadam 50mm to 75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH Capacity HMP with mechanical pauser Gr-11, premixed with VG-30 grade bituminous binder & transporting the hot mix to work site, laying to the required grade, level & alignment, rolling with smooth wheeled, vib ratory & tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specification						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Qty Vide Page no 288 enclosed excel sheet @ rate of Rs. 6035.56/-	3	4	5	6	7	8
	Providing & laying bituminous concrete 40mm compacted thickness with V6-30 Bitumen grade using 40-60 HMT using crushed aggregates of grading-II, pre mixed with bituminous binder at 6% mix & filler, transporting the hot mix to work site, laying with a power finisher with to the required grade, level & alignment rolling with smooth wheeled, vibratory & tandem rollers to achieve the desired compaction as per MORTH specification clause no - 509. complete					Rs. 2726671.36	

3763

Measurement Book

No. A/10

Serial No.....

Name of work..... From..... To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	in all respects as per specification Qty Vide Page no (31) of enclosed excd sheet @ rate of Rs. 728.97/-	3	4	5	6	7	8
						361.41 Cum	Rs. 2637951.40 2637920/-

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	<u>Item NO-14</u> Road marking with Hot applied thermoplastic compound with reflectorising glass beads on bituminous surface. providing & laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250gm per Sq.m area, thickness of 2.5mm in exclusive of surface applied glass beads as per IRC: 35. The finished surface to be level, uniform & free from streaks & holes complete as per specification. Qty Vide Page no 37 of enclosed excel sheet @ rate of Rs. 448.44/-					216.24 Sq.m Rs. 141813.54	

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Measurement Book

No. A/10 **3764**

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

From..... To.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	<u>Item No-15</u> Providing & fixing of reflective raised pavement marker (RPM's) cat eyes / Road studs conforming to ASTM D 4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of poly carbonate mould, with a height of 20mm size of 130mm x 105mm & reflecting area of 138sqm with the slope of 35+5 degree to the base on either side. The marker shape 11 display an initial minimum luminous intensity of 279 mcd/lux at an entrance angle						

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	6	7
						8
	of zero degree & observation angle of 0.2 degree. The corresponding values for 20 degree, entrance & 0.2 degree observation angle shall be 112 med/lux with color multiplying factors on either cases for white, yellow & red markers being 1.0, 0.68 & 0.25 respectively. The RPM's should be fixed by using 2 numbers of polymer shanks using appropriate adhesive as recommended.					
	Qty Vide Pagano (38) enclosed excel sheet					900.00 Nos
	Qty upto 12.5% @ rate of Rs. 307.15/-					731.00 Nos
	Qty above 12.5% @ rate of Rs. 385.87/-					Rs. 22 4526.65 169.00 Nos
						Rs. 65212.03
						Rs. 2897 38.68
						Amount

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Measurement Book

No. A/10 3765

Serial No. 8

Name of work

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO-16 Retro-reflectised traffic signs, Providing & fixing of retro-reflectised cautionary, mandatory & informative sign as per revised IRC 67-2012 made of high intensity grade sheeting vide clause 800.1.3 fixed over Aluminium sheeting 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with m15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specification.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty Vide enclosed excel sheet	Page no (39) of				300 Nos.	
	@ rate of Rs. 3967-38/-					Rs. 11902-14/-	
	Extra Item No-01						
	Providing & fixing Rcc precast cover slab of 100mm thick for drain in cement concrete m20 using graded jelly 20mm & down size with steel reinforcement including formwork, lift charges, curing & concrete finish surface on both sides etc complete as per drawing & direction of Engineer-in-charge.						

Measurement Book

No. A/10 3766

.To.

Date of commencement of work..

Date	Full description, etc., of work	Dimensions			Contents	Reference to last Measurement '8
		Number	Length	Breadth		
1	Qty Vide enclosed excel sheet @ rate of Rs. 1760/- <i>(Signature)</i>	3	4	5	7	
						258.60 Sqm
						Rs. 444576.00 <i>(Signature)</i>
						Grand Total Amount Rs. 13 26 33 88.78 <i>(Signature)</i>
						1,32,63,331/- <i>(Signature)</i>

Q. One more thirty- two lakhs sixty-three thousand three thirty one Only.

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Agarapura V:illage	3	4	5	6	7	8

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 3767

Date

Serial No. 8

Contractor's Reference

Contractor

Depth

Breadth

Length

Number

Contents

Reference to last Measurement

Name of work

From

To

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	7	8
	<u>Certificate</u> 1] Certified that the work has been completed satisfactorily 2] Certified that debris have been removed from workspot 3] Certified that there is no departmental issues with the Contractor <i>Rup Rana</i> AE <i>28/2/17</i>					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	18 Final Bill : 1,32,63,331						
	1% IT : 1,32,633						
	4% VAT : 5,30,533						
	1% CESS : 1,32,633						
	0.1% Cef : 13,263						
	LR : 5,31,681						
	T/D : 13,40,743						
	Net payable: 1,19,22,588/-						
	Audited & Admitted for Rs. 1,32,63,331/-						
	and Rs. 1,19,22,588/- by Cheque and Rs. 13,40,743/- by Adjustment						
	Accts. Supdt. Project Division S.B.M.P.						
	Est. Engineer Project Division S.B.M.P.						31/3/17